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21 May 85

TOP SECRET PAPER

SUBJECT: (U) Acquisition of Video Monitoring System to enhance Operations and Training

1. (U) Request the procurement or the authorization of resources to procure a video recording/playback system for the training and operational use of the Prototype Operational Group (POG) of DIA's SUN STREAK Project. Such a system would significantly promote accomplishment of the unit mission as follows:

a. (S/WNINTEL) Because of the nature of the training and operational activities of this organization, access to actual sessions should be restricted to viewer and monitor/interviewer. Nevertheless, a need frequently exists for additional personnel, such as other student viewers or interviewers, supervisors, managers, or outside analysts to observe events within the session context. Attempts have been made to have additional personnel personally observe training and operational sessions. Results have been less than satisfactory, as the presence of an extraneous person often adversely effects the concentration and performance of the viewer, as well as introduces an additional source of environmental overlay, which may obscure or adulterate the content of the sought-for information. A "closed-circuit" video camera/monitor/recording system would allow real time observation and analysis of session-chamber events, which would be beneficial for outside analyst input and evaluation, managerial evaluation of

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training effectiveness, and observational training of student viewers and interviewers. Such a video system would also allow sessions to be both visually and auditorily recorded, where only audio recording has been possible in the past. [Such systems are widely used today in high school and college athletic programs as a valuable tool in training enhancement. Teams and individual players can be retrospectively shown both proper actions performed and mistakes made, graphically demonstrating correct and incorrect courses of action, as well as providing coaching staff the opportunity to not only evaluate strengths, but also identify points requiring further improvement and concentration.] A similar video recording capability would ^{also permit} allow the viewer after the fact to observe his own correct and incorrect actions, and permit the interviewer to observe in better detail the viewer's responses, actions, and body movements, all of which are important not only as signposts of viewer accuracy and proper mental process, but are also relevant to the application of neuro-linguistics, a new ^{convergent} technology showing great potential for RV applications.

b. (U) In operations, a system of this nature would allow a permanent record of data obtained, much of which is not only auditory, but visual in two or three dimensions as well. Permanent records would then permit more in-depth and thorough analysis, lessening the possibility that important information might inadvertently be lost or overlooked.

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2. (U) Following is a tabulation of three possible configurations, ranging from ideal to minimum acceptable:

a. (U) An ideal system would consist as follows.

Three remotely operated cameras--one mounted on the wall above and to the right of the interviewer, allowing a full and unobstructed view of the remote viewer; one on the wall behind and to the right of the viewer allowing a similar field of vision of the interviewer; and one directly above the viewer's end of the table, allowing a complete view of the viewer's paper/modeling material. Cameras must neither emit any sound while recording, nor provide any other indication that they are in operation.

A video mixing system with all ancillary controls, permitting any combination of full and split screen mixing for both live and recording functions.

Three recording systems to allow recording of audio/video information from all three cameras as necessary.

Three video monitors, to allow real-time monitoring of up to all three cameras/recorders to facilitate observation of

viewer/interviewer/feedback interaction.

b. (U) A medium acceptable system would include as follows:

Two remotely controllable video cameras mounted behind viewer and interviewer respectively.

Video mixing system.

Two recorders and two monitors.

c. (U) A minimum acceptable system would include:

One remotely controllable camera, with two available fixed mounts--one behind the viewer, and one behind the interviewer as described above.

One video recorder and one monitor.

4. (U) For present use, recommend that the third option be implemented, and a single remote-controlled video camera, with two mounts, one monitor, and one video recorder be acquired for use by this organization. This will allow the video monitoring/recording concept to be evaluated for the smallest initial expenditure.

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5. (U) Provisional estimates from two firms in the Washington,
~~area~~, D.C. have been obtained for a system as described in option three.

Approximate cost of the system were estimated to be in the
neighborhood of \$2,200.00 to \$2,400.00. ~~is \$2400.00~~ Specific data on ~~the~~
EQUIPMENT ^{Surveyed} is on FILE AT the ~~P~~ SUN STREAK
PROTOTYPE OPERATIONAL GROUP, FORT MEADE, MARYLAND

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